

## ABSTRACT

A control circuit for a motor including a contactor circuit having a contactor, a first end and a second end, and a snubber circuit connected across the contactor circuit. The snubber circuit includes a first port electrically connected to the first end of the contactor circuit, a second port electrically connected to the second end of the contactor circuit, a first sub-circuit electrically connected to one of the first and second ports, and a second a second sub-circuit electrically connected in series with the first sub-circuit and to the other of the first and second ports. The first sub-circuit includes a resistor and a first non-linear device electrically connected in parallel branches, and the second sub circuit includes an energy storage device and a second non-linear device electrically connected in parallel branches.

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